

Form PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DKT. NO. 520.30414R52	SERIAL NO.
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		APPLICANT KATO, et al.	
		FILING DATE 2-6-02	GROUP

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date
Smc	AA 4,836,905	6-6-89	Davis, et al.			
	AB 4,923,584	5-8-90	Bramhall, Jr. et al.			
	AC 4,643,629	2-17-87	Takahashi, et al.			
	AD 5,186,718	2-16-93	Tapman, et al.			
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FOREIGN PATENT DOCUMENTS *

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation /Abstract	
						Yes	No
Smc	AM 60-246635	12-6-85	Japan			ABS	
	AN 1-298180	12-1-89	Japan			ABS	
	AO 2-94647	4-5-90	Japan			ABS	
	AP 64-500072	1-12-89	Japan				X
	AQ 2-61064	3-1-90	Japan				X
	AR 1-310553	12-14-89	Japan			ABS	
	AS 1-251734	10-6-89	Japan			ABS	
	AT 63-153270	6-25-88	Japan			FTR	

OTHER DOCUMENTS * (Including Author, Title, Date, Pertinent Pages, Etc.)

Smc	AU	Terminological Dictionary of Semiconductor Equipment, Edited by Semiconductor Equipment Association of Japan, Published by Nikkan Kogyo Shimbun sha Inc. (1987) p. 183 (PTR)
	AV	Semicon News, April 1987 (pp. 38-43) (PTR)
	AW	VLSI Processing Equipment handbook, Ph. D. Kazuo Maeda (6-90), pp. 158 (PTR)
	AX	Latest trend of process automation (Realize, Inc.) (1986), pp. 202 and 203
	AY	Semicon News, Semicon/East '84, 12-1984, vol. 13., p. 199
	AZ	"Semiconductor World", 1990/9, Published by Press Journal, Inc., pp. 136-7 (FTR)
Examiner Stephen Garin		Date Considered 3-31-01

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Swg	AM	62-44571	2-26-87	Japan		ABS	
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Examiner	Stephen Lharini	
	Date Considered 3-31-06	

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	AT	1-316957	12-21-89	Japan		ABS	

OTHER DOCUMENTS * (Including Author, Title, Date, Pertinent Pages, Etc.)

904	AU	Semiconductor World, pp. 52-53, 8/91
	AV	European Search Report, 1/92, re 91307625.3
	AW	European Search Report, 4/98, re 97111628.0
	AX	European Search Report, 3/99, re 981061625
	AY	JP application No. 3-234408, Notification of Reasons for Refusal, 1-28-97 (TR)
	AZ	JP application No. 2646905, Notification Reasons for Revocation 12-15-98 (TR)
Examiner	<i>Stephen J. Harni</i>	
	Date Considered	
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FOREIGN PATENT DOCUMENTS *

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation /Abstract	
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Sing	AM	2-178946	7-11-90	Japan		PTR/ABS	
	AN	62-132321	6-15-87	Japan		PTR/ABS	
	AO	63-131123	8-26-88	Japan		PTR	
	AP	87/07309	12-3-87	WO			
	AQ	0381338	8-8-90	Europe			
	AR	0246453	11-25-87	Europe			
	AS	2-65252	3-5-90	Japan		PTR	
	AT	1-135015	5-26-89	Japan		ABS	

OTHER DOCUMENTS * (Including Author, Title, Date, Pertinent Pages, Etc.)

Sing	AU	JP application No. 2646905, Notice of Reasons for Revocation 7-21-99 (TR)
	AV	Decision for Patent Opposition, Opposition No. 10-70995 (10-99) (TR)
	AW	JP application No. 2-225321, Notification of Reasons for Refusal 10-15-96 (TR)
	AX	JP application No. 8-335329, Interview Record (TR)
	AY	JP application No. 8-335329, Notification of Reasons for Refusal 9-30-97 (TR)
	AZ	JP application No. 8-335329, Notification of Reasons for Refusal 4-7-98 (TR)
Examiner	Stephen Imani Date Considered 3-31-06	

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U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS *

OTHER DOCUMENTS * (Including Author, Title, Date, Pertinent Pages, Etc.)			
ENC	ALL	IP patent No.	3816126

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AP							
AQ							
AR							
AS							
AT							

OTHER DOCUMENTS * (Including Author, Title, Date, Pertinent Pages, Etc.)

244	AU	JP application No. 11-001263, Notification of Reasons for Refusal 2-2-00 (TR)
	AV	JP application No. 2000-05449, Notification of Reasons for Refusal 9-6-00 (TR)
	AW	JP application No. 2000-054450, Notification of Reasons for Refusal 9-6-00 (TR)
	AX	JP application No. 2000-054451, Notification of Reasons for Refusal 9-6-00 (TR)
	AY	JP application No. 2000-054452, Notification of Reasons for Refusal 9-6-00 (TR)
	AZ	EP91307625, Office Action 10-11-93
Examiner		Date Considered
Stephen L. Harris		3-31-06

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	AM						
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	AP						
	AQ						
	AR						
	AS						
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OTHER DOCUMENTS * (Including Author, Title, Date, Pertinent Pages, Etc.)

SMS	AU	EP91307625, Summons to attend oral proceedings 12-9-99
	AV	EP91307625, Communication of a notice of opposition 11-19-98
	AW	EP91307625, Interlocutory decision in Opposition proceeding, 5-16-00
	AX	EP91307625, Minutes of the oral proceedings, 3-9-00
	AY	EP97111628, Office action 12-1999
	AZ	EP97111628, Office action 11-2000
Examiner <i>Stephen Garm</i>		Date Considered 3-31-06

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AP							
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AT							

OTHER DOCUMENTS * (Including Author, Title, Date, Pertinent Pages, Etc.)

Sug	AU	EP97111628, Office action 6-2001
	AV	EP98106162, Office action 11-2000
	AW	EP98106162, Office action 6-2001
	AX	KR application No. 14984/91, Preliminary Notice of Ground(s) for Rejection (TR)
	AY	KR application No. 184682-00-00 Notice of Decision on Opposition to the Granted Patent 10-4-2000 (TR)
	AZ	KR application No. 184682, Trial Decision 8-1-00 (TR)
Examiner	Stephen Lhavin	
	Date Considered 3-31-06	

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AP							
AQ							
AR							
AS							
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OTHER DOCUMENTS * (Including Author, Title, Date, Pertinent Pages, Etc.)

Sm	AU	KR application No. 46756/98, Preliminary Notice of Ground(s) for Rejection 1-20-99 (TR)
	AV	KR application No. 212874, 12-22-00, Notice of Decision on Opposition to the Granted Patent
	AW	KR application No. 46757/98, Preliminary Notice of Ground(s) for Rejection 1-20-99 (TR)
	AX	KR application No. 212819, 12-22-00, Notice of Decision on Opposition to the Granted Patent (TR)
	AY	JP patent No. 3145359, Notice of Reasons for Revocation 12-18-01 (TR)
	AZ	JP patent No. 3145375, Notice of Reasons for Revocation 12-18-01 (TR)
Examiner <i>Stephen Davis</i>		Date Considered 3-31-06

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	AS						
	AT						

OTHER DOCUMENTS * (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>Sub</i>	AU	JP patent No. 3145375, Notice of Reasons for Revocation 12-18-01 (TR)					
<i>Sub</i>	AV	JP patent No. 3147230, Notice of Reasons for Revocation 12-18-01 (TR)					
	AW						
	AX						
	AY						
	AZ						
Examiner				Date Considered			
<i>Stephen M. Shum</i>				8-12-04			

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

<div>Official Seal: OIP APR 02 2004 PATENT & TRADEMARK OFFICE 110113</div> <div>LIST OF ART CITED BY APPLICANT (PTO-1449)</div>		ATTY. DOCKET NO. 520.30414R52		APPLICATION NO. 10/066,769			
		APPLICANT Kato, et al.					
		Filed February 6, 2002		GROUP 3749			
U.S. PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
FOREIGN PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation/ Abstract	
						Yes	No
SMH	02-065252	3/5/1990	Japan			X	
SMH	02-178946	7/11/1990	Japan			X	
SMH	62-216315	9/22/1987	Japan			X	
SMH	63-153270	6/25/1998	Japan			X	
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
EXAMINER Stephen M. Hain				DATE CONSIDERED 8-12-04			

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U.S. PATENT DOCUMENTS

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	AA					
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FOREIGN PATENT DOCUMENTS

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SMC	AM	1-258438	10-16-89	Japan		X	
	AN						
	AO						
	AP						
	AQ						
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	AS						
	AT						

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TECHNOLOGY CENTER R3700

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

SMC	AU	Office Action dated 9-3-2002, in corresponding Japanese Patent Application 2000-040579
SMC	AV	Decision of the Tokyo High Court, Case No. 58, on oral proceedings, dated September 17, 2002
SMC	AW	Office Action dated 9-3-2002, in corresponding Japanese Patent Application 2000-040580
	AX	
	AY	
	AZ	
Examiner Stephen M. Ham		Date Considered 8-12-04

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2162

U.S. PATENT DOCUMENTS

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AB	4,923,584	5-8-90	Bramhall, Jr. et al.			
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FOREIGN PATENT DOCUMENTS *

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation /Abstract	
						Yes	No
	AM	2-178946	7-11-90	Japan		PTR/ABS	
	AN	62-132321	6-15-87	Japan		PTR/ABS	
	AO	63-131123	8-26-88	Japan		PTR	
	AP	87/07309	12-3-87	WO			
	AQ	0381338	8-8-90	Europe			
	AR	0246453	11-25-87	Europe			
	AS	2-65252	3-5-90	Japan		PTR	
	AT	1-135015	5-26-89	Japan		ABS	

OTHER DOCUMENTS * (Including Author, Title, Date, Pertinent Pages, Etc.)

	AU	JP application No. 2646905, Notice of Reasons for Revocation 7-21-99 (TR)
	AV	Decision for Patent Opposition, Opposition No. 10-70995 (10-99) (TR)
	AW	JP application No. 2-225321, Notification of Reasons for Refusal 10-15-96 (TR)
	AX	JP application No. 8-335329, Interview Record (TR)
	AY	JP application No. 8-335329, Notification of Reasons for Refusal 9-30-97 (TR)
	AZ	JP application No. 8-335329, Notification of Reasons for Refusal 4-7-98 (TR)
Examiner		Date Considered
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Form PTO-1449

U.S. DEPARTMENT OF COMMERCE
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520.30414R52

SERIAL NO.

10/066,769

INFORMATION DISCLOSURE STATEMENT
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U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date
	AA					
	AB					
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FOREIGN PATENT DOCUMENTS *

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation /Abstract	
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	AM	2-224242	9-6-90	Japan		ABS	
	AN	2-224242	9-6-90	Japan		PTR	
	AO	58-108641	6-28-83	Japan		ABS	
	AP	1-120811	5-12-89	Japan		ABS	
	AQ	61-250185	11-7-86	Japan		ABS	
	AR						
	AS						
	AT						

OTHER DOCUMENTS * (Including Author, Title, Date, Pertinent Pages, Etc.)

	AU	JP patent No. 2816139, Notice of Reasons for Revocation 11-21-99 (TR)
	AV	Official Decision on Opposition to Grant of Patent 1999-71584 1-12-01 (TR)
	AW	JP application No. 9-329873, Notification of Reasons for Refusal 7-14-98 (TR)
	AX	JP application No. 9-329873, Notification of Reasons for Refusal 11-10-98 (TR)
	AY	JP patent No. 2942527, Notice of Reasons for Revocation 6-27-00 (TR)
	AZ	Decision on Opposition to the Grant of a Patent 2000-70844 1-12-01 (TR)
Examiner		Date Considered
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U.S. PATENT DOCUMENTS

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	AA					
	AB					
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FOREIGN PATENT DOCUMENTS *

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						Yes	No
	AM						
	AN						
	AO						
	AP						
	AQ						
	AR						
	AS						
	AT						

OTHER DOCUMENTS * (Including Author, Title, Date, Pertinent Pages, Etc.)

	AU	JP application No. 11-001263, Notification of Reasons for Refusal 2-2-00 (TR)
	AV	JP application No. 2000-05449, Notification of Reasons for Refusal 9-6-00 (TR)
	AW	JP application No. 2000-054450, Notification of Reasons for Refusal 9-6-00 (TR)
	AX	JP application No. 2000-054451, Notification of Reasons for Refusal 9-6-00 (TR)
	AY	JP application No. 2000-054452, Notification of Reasons for Refusal 9-6-00 (TR)
	AZ	EP91307625, Office Action 10-11-93
Examiner <i>duplicate</i>		Date Considered

* PTR (partial translation) - FTR (full translation) - ABS (abstract)



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U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS *

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation /Abstract	
						Yes	No
AM							
AN							
AO							
AP							
AQ							
AR							
AS							
AT							

OTHER DOCUMENTS * (Including Author, Title, Date, Pertinent Pages, Etc.)

	AU	EP91307625, Summons to attend oral proceedings 12-9-99
	AV	EP91307625, Communication of a notice of opposition 11-19-98
	AW	EP91307625, Interlocutory decision in Opposition proceeding, 5-16-00
	AX	EP91307625, Minutes of the oral proceedings, 3-9-00
	AY	EP97111628, Office action 12-1999
	AZ	EP97111628, Office action 11-2000
Examiner		Date Considered

* PTR (partial translation) - FTR (full translation) - ABS (abstract)

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	AA					
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FOREIGN PATENT DOCUMENTS *

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	AM						
	AN						
	AO						
	AP						
	AQ						
	AR						
	AS						
	AT						

OTHER DOCUMENTS * (Including Author, Title, Date, Pertinent Pages, Etc.)

	AU	EP97111628, Office action 6-2001
	AV	EP98106162, Office action 11-2000
	AW	EP98106162, Office action 6-2001
	AX	KR application No. 14984/91, Preliminary Notice of Ground(s) for Rejection (TR)
	AY	KR application No. 184682-00-00 Notice of Decision on Opposition to the Granted Patent 10-4-2000 (TR)
	AZ	KR application No. 184682, Trial Decision 8-1-00 (TR)
Examiner		Date Considered
Duplicate		

* PTR (partial translation) - FTR (full translation) - ABS (abstract)

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U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS *

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	AM						
	AN						
	AO						
	AP						
	AQ						
	AR						
	AS						
	AT						

OTHER DOCUMENTS * (Including Author, Title, Date, Pertinent Pages, Etc.)

	AU	KR application No. 46756/98, Preliminary Notice of Ground(s) for Rejection 1-20-99 (TR)
	AV	KR application No. 212874, 12-22-00, Notice of Decision on Opposition to the Granted Patent
	AW	KR application No. 46757/98, Preliminary Notice of Ground(s) for Rejection 1-20-99 (TR)
	AX	KR application No. 212819, 12-22-00, Notice of Decision on Opposition to the Granted Patent (TR)
	AY	JP patent No. 3145359, Notice of Reasons for Revocation 12-18-01 (TR)
	AZ	JP patent No. 3145375, Notice of Reasons for Revocation 12-18-01 (TR)
Examiner		Date Considered
duplicate		

* PTR (partial translation) - FTR (full translation) - ABS (abstract)

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U.S. DEPARTMENT OF COMMERCE
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2162

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	AA					
	AB					
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FOREIGN PATENT DOCUMENTS

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	AM	1-170013	6-5-89 Japan			X	
	AN						
	AO						
	AP						
	AQ						
	AR						
	AS						
	AT						

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	AU	JP patent No. 3145375, Notice of Reasons for Revocation 12-18-01 (TR)
	AV	JP patent No. 3147230, Notice of Reasons for Revocation 12-18-01 (TR)
	AW	JP application No. 2000-338177, Decision of Refusal 4-16-2002 (FTR)
	AX	
	AY	
	AZ	
Examiner		Date Considered
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		FILING DATE	GROUP
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U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date
SM	AA	4,969,790	11/13/90	Petz et al.		10/24/88
	AB					
	AC					
	AD					
	AE					
	AF					
	AG					
	AH					
	AI					
	AJ					
	AK					
	AL					

FOREIGN PATENT DOCUMENTS

Abstract/

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation	
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SM	AM	2-61064	03/01/90	Japan			x
SM	AN	1-310553	12/14/89	Japan			x
SM	AO	1-251734	10/06/89	Japan			x
SM	AP	62-44571	02/26/87	Japan			x
SM	AQ	62-50463	03/05/87	Japan			x
SM	AR	2-106037	04/18/90	Japan			x
SM	AS	57-29577	02/17/82	Japan			x
SM	AT	63-153270	06/25/88	Japan (w/complete translation)		X	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

SM	AU	Semiconductor Equipment Association of Japan, "Terminological Dictionary of Semiconductor Equipment), front, table, page 183, back, Nov. 20, 1987.				
SM	AV	Semiconductor Equipment Association of Japan, "Semiconductor News", Vol. 4, pp. 38-43, April 10, 1987 (w/translation).				
	AW					
	AX					
	AY					
	AZ					
Examiner				Date Considered		
Stephen M. Gammie				7-31-a		

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Patent and Trademark OfficeINFORMATION DISCLOSURE
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KATO, et al.FILING DATE
April 19, 2000

GROUP 3749

 10564 U.S. PTO
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 04/19/00

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SMG	3 6 5 2 4 4 4	2-72	Lester, et al.			
SMC	3 9 8 1 7 9 1	9-76	Rosvold			
SMG	4 2 2 6 8 9 7	10-80	Coleman			
SMG	4 3 1 1 4 2 7	1-82	Coad, et al.			
SMC	4 3 1 3 8 1 5	2-82	Graves, Jr. et al.			
SMC	4 4 4 9 8 8 5	5-84	Hertel, et al.			
SMG	4 4 5 7 6 6 1	7-84	Flint, et al.			
SMG	4 5 3 4 3 1 4	8-85	Ackley			
SMG	4 5 6 3 2 4 0	1-86	Shibata, et al.			
SMG	4 6 3 4 3 3 1	1-87	Hertel			
SMG	4 7 0 5 9 5 1	11-87	Layman, et al.			

FOREIGN PATENT DOCUMENTS

Abstract/

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
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SMG	6 2 8 9 8 8 1	4-87	Japan		X
SMC	6 2 2 0 7 8 6 6	9-87	Japan		X
SMG	1 3 1 9 7 0	2-89	Japan		X
SMC	1 3 1 9 7 1	2-89	Japan		X
SMC	6 3 6 5 8 2	1-89	Japan		X
SMC	1 1 3 5 0 1 5	5-89	Japan		X

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

SMG	R.P.H. Chang, "Multipurpose plasma reactor for materials research and processing", J. Vac. Sci. Technol., Vol. 14, No. 1, Jan./Feb. 1977, pages 278-280.

EXAMINER

Stephen M. Grarini

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SML	4 7 1 5 7 6 4	12-87	Hutchinson			
SML	4 8 5 1 1 0 1	7-89	Hutchinson			
SML	4 8 3 6 7 3 3	6-89	Hertel, et al.			
SML	4 8 3 6 9 0 5	6-89	Davis, et al.			
SML	4 8 9 5 1 0 7	1-90	Yano, et al.			
SML	4 9 0 2 9 3 4	2-90	Miyamura, et al.			
SML	4 9 0 3 9 3 7	2-90	Jakuniec, et al.			
SML	4 9 0 9 6 9 5	3-90	Hurwitt, et al.			
SML	4 9 1 1 5 9 7	3-90	Maydan, et al.			
SML	4 9 1 5 5 6 4	4-90	Error, et al.			
SML	4 9 1 7 5 5 6	4-90	Stark, et al.			

FOREIGN PATENT DOCUMENTS

Abstract/

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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SML	2 6 5 2 5 2	3-90	Japan			X	
SML	6 4 1 2 0 3 7	1-89	Japan			X	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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Steve Gorman

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SMS	4 9 2 4 8 9 0	5-90	Giles, et al.	134	902	
SMS	4 9 3 6 3 2 9	6-90	Michael, et al.	134	902	
SMS	5 0 1 4 2 1 7	5-91	Savage	364	550	
SMS	5 0 0 7 9 8 1	4-91	Kawasaki, et al.			
SMS	4 1 3 8 3 0 6	2-79	Niwa	156	345	
SMS	4 5 7 6 6 9 8	3-86	Gallagher, et al.	204	192	
SMS	5 0 1 4 2 1 7	5-91	Savage	364	498	
SMS	5 3 5 1 4 1 5	10-94	Brooks, et al.	34	389	
SMS	4 6 4 3 6 2 9	2-87	Takahashi, et al.	414	331	
SMS	4 8 2 4 3 0 9	4-89	Kakehi, et al.	414	217	
SMS	4 9 5 1 6 0 1	8-90	Maydan, et al.	414	217X	

FOREIGN PATENT DOCUMENTS

Abstract/

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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SMS	2 0 3 8 1 3 3 8	5-90	Europe				
SMS	6 4 1 2 0 3 7	1-89	Japan				
SMS	4 3 0 5 4 9	4-92	Japan				
SMS	8 7 0 7 3 0 9	5-87	PCT Int'l Appl.				
SMS	2 9 4 6 4 7	4-90	Japan				
SMS	6 0 2 4 6 6 3 5	12-85	Japan				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS											Abstract/			
		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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